

REJUVENATION??? New Life for the Bally ARCADE? On Friday, Jan.4, Fidelity Electronics, Itd., signed a letter of intent covering the purchase of the Consumer Products Div. of Bally. (Fidelity now builds the line of \_\_\_\_ Challenger electronic board games, including the latest talking Chess Challenger). The above was announced to the Bally dealers/distributors at the Winter Consumer Electronics Show on Saturday, and so Tom Wood and I hot-footed it over to the Fidelity stand. We had a very interesting discussion with their Engineering Manager, and talked about our goals, their intentions, etc. At the moment, it seems like Fidelity will pump up the ARCADE production line and get 10 or more cartridges under way for distribution this year. They plan on reviewing the Add-On option later this year, and since there is now a chance that this device may get into production after all, I have revised my plans and placed the additional memory unit onto a low priority slot. However, work on a somewhat less comprehensive device is underway, one that I call PROJECT ONE.

PROJECT ONE is planned to be a printed circuit board that will be able to have two modes of operation. One, with an additional power supply, will contain some memory and have a connector for a keyboard. 32K is planned. In the second mode, there will be an additional connector that will interface to a S-100 system. In this way, the Bally and the S-100 devices that can be connected will be able to communicate. Effort is now underway to translate a prototype board into printed circuit format, and we expect to have the units (bare but with sockets and small parts soldered in place) completed by mid-summer. Cost is programmed not to exceed \$75.

POPULARITY CONTEST is underway to determine which of the following are feasible to pursue. Please prioritize this list against your own goals. I'll tabulate your responses to me on Feb. 6, and we shall evaluate them.

Plug in cartridges of languages other than Tiny BASIC
Data processing - inventories, indexes, keeping track
Word processing
Modem access to telephone circuits, originate/receive
Self diagnostic cartridge
Computer control of external devices - broad spectrum
Remote readouts, without using the TV screen
Continuous real time clock, readable by computer
Bally - Bally interconnection by cables
Power control of tape drive including locating files, adding/removing data
Light pen

Digital plotter
Prom Burner
Vocal communication

MODEM is one item I'd be greatly interested in - so we can communicate via the telephone lines, or use TYMESHARE, or use a bulletin-board type of nation-wide service. One of these, SOURCE, was shown in operation at the CES by the TI computer display, primarily by illustrating the message function. One of our subscribers is TCA922, in case any of you already have this particular service. There is a write-up on SOURCE in the Jan. Interface Age, and they will have a follow-up Z-80 tie-in article in March. There is an article on the CBBS system in the January Microcomputing.

WEIRD PROGRAMS are still being generated. Try this one by Bob Wagner:
10 LIST 15000
20 GOTO 10

or

10 LIST 14120,15300 20 GOTO 10

## arcadian.

BALLY AWARDS announced by VIDEO magazine in their March issue - They reviewed TV-type games and gave 10 awards, of which Bally received 3: "Best Audio and Video Effects"-BALLY; "Best Sports Game"-Football; and "Best Commercial Arcade Game"-Space Invaders.

PITTSBURGH area subscribers are invited to call JIM BAILEY at 833-8768 (Library area)

RAPID BOX MOVEMENT is desired by some game programmers who would like to simulate the movement of a ball, etc., They wonder how to control a box so that it moves rapidly across the screen.

CHIP FAILURE can occur if a large static electricity charge is built up. If you do experimentation, you might consider some kind of isolation device or scheme. Ron Schwenk suggests all experimentation thru the hand controller ports be done with No.4 - failure of that one segment of the chip still allows use of 1 & 2 in games and #3 for the interface.

ENLARGED LETTERS have cropped up again. This time they are done graphically, as opposed to previous POKE'd versions. co-Author Phil Morton will be vanning to Alaska this summer and would like to contact Northerners. He is at 1839 S. Halsted St. Chicago, IL 60608, (312) 666-5628. In the program, I used BIG LETTERS for the items to be printed where Phil used ARCADIAN HOT SHOT. Lines 129-240 clean up the screen and add the buckshot. Phil has an AXIOM EX-850 video printer which can 'photograph' the screen and provide a reproducible image. b means x (multiply)

1 . ELECTRONIC

. VISUALIZATION

CENTER

C means + (divide)

5 . BY DAN SANDIN

6 .& PHIL MORTON

15 .2 TEXT LINES SCALED

19 INPUT L

20 CLEAR ; BC=0; FC=7

30 PRINT " BIG

40 PRINT "LETTERS

50 Q=29

60 IF L>40=37

70 V=37

80 IF L>4V=40

90 FOR X=-80TO 160cL-80

95 FOR Y=QTO 43

BIGGER VIA 'L' VARIABLE...

100 IF PX(X,Y)B0X (X+81)bL-79,(Y-V)bL.L.L.

110 NEXT Y

120 NEXT X

129 . TEXT LINE ERASE LOOP

130 FOR A=QTO 44

140 BOX 0, A, 160, 1, 2

150 NEXT A

200 . INDEFINATE RND (2) PIXELATING FIELD

230 BOX RND (160)-80,RND (88)-44,RND (2),RND (2),3

240 GOTO 230



# arcadian -

|  | This version of SLOT MACHINE has an interesting set of graphics as the 'reels' rotate. I kept losing | money, maybe you'll have better luck.  | of distance of the second seco | FC=  | 639 FOR U=30T0 20STEP -1;&(16)=U;NEXT U<br>640 FC=172 | 641 FOR U=20TO 30; &(16)=U; NEXT U | FOR         | 650 IF C=1F=200<br>650 IF C=2P=100 | 660 IF C=3P=50 | L | 680 IF C=5P=5 | <u> </u>          | GOT             |              | PRINT " 888" | 1838 FRINI " %%%"; Z=3; RETURN<br>1848 PRINI " ***"; Z=4; RFTIBN | PRINT       | 1868 PRINT " ###"; RETURN |                      | 1;&(0)=0;NEXT 0         | ŗ                          |                | "+ + + MINNER + + + +" | PLAYER", #2, F,; PRI |     | (21)=47;&(22)=31                        |                 |
|--|--|--|--|--|---|------------------------------------|-------------|------------------------------------|----------------|---|---------------|-------------------|-----------------|--------------|--------------|--|-------------|---------------------------|----------------------|-------------------------|----------------------------|----------------|------------------------|----------------------|-----|---|-----------------|
| 300 A=RND (10)<br>310 B=RND (10)<br>320 C=RND (10)<br>330 CX=-65 | CY=<br>IF<br>IF  | 370 IF A=3GOSUB 1020<br>380 IF A=4GOSUB 1030<br>390 IF A=5GOSUB 1020             | IF A=6G0SUB  | 410 IF A=7GOSUB 1040<br>420 IF A>7GOSUB 1050         | TU.   | 450 IF B=160SUB 1010               | IF B=3GOSUB | 480 IF B=460SUB 1030               | IF B=660SUB    |   |               |                   | 520 CX=31;CY=-5 | 530 B=Z      | IF C=1GOSUB  | 550 IF C=2605UB 1020<br>560 IF C=3605UB 1020                     | IF C=4G0SUB | TF                        | IF C>5GOSUB          | SSS FOR U=ZZIU IBSIEP - |                            | 625 BC=7;FC=81 |                        | 99                   |     | 637 &(19)=37;&(17)=31;&(21)=47;&(22)=31 | •               |
| 8 . SLOT MACHINE<br>9 .MUELLER 8-4-79<br>10 CLEAR<br>20 BC=-24   | FC=127<br>NT=0<br>PRINT " ELECTRONIC SLOT PAY  | 50 PRINT " \$\$\$ 200 *** 25"<br>60 PRINT " 888 100 000 5"<br>65 PRINT " 222 50" | CY=-5  | 80 PKINI LEMON LEMON LEMON"<br>85 BOX -6,-5,143,22,3 | 86 BOX -6,-5,139,18,3<br>90 FOR X=-54TO 42STEP 48     | X,-5,41,16,3                       | D=100       | 130 E=1000<br>140 CX=-67:CY=-32    |                |   | 155 CX=-67    | TE TO(1) COTO 200 | IF TR(2) G0T0   | 190 6010 170 |              | 200 F=1<br>205 FOR Z=1ETO 22:8/Z)=70:NEVT Z                      | GOTO 221    |                           | CX=-65; CY=-5; GOSUB | CX=-17;CY=-5;GOSUB      | 223 CA=31;CT==3;GUSUB 1050 | <br>BOX -6,-5, | NEXT G                 |                      | G0T | F=10=0-1                                | 290 IF F=ZE=E-1 |

## arcadian.

```
will calculate the monthly payment and the
 1 . MONTHLY LOAN PAYMENT
                                 total payment when you input the loan amount, the
 2 . BY G. HALLQUIST
                                 interest rate, and the months the loan will run.
 4 : RETURN
                                 Enter these values by the digit, including leading
 5 CLEAR :NT=1
                                               zeros(that is, $20,000 is entered as
10 FOR K=0TO 125;@(K)=0;MU=31+K;NEXT K
                                               020000, and 9% is entered as 09000).
20 FOR K=13TO 8STEP -1
30 INPUT "LOAN AMOUNT DIGIT?"L
                                         This could be a good start for an
40 @(K)=L; NEXT K
                                 amortization program, where each monthly payment is
50 INPUT "MONTHS?"M
                                 split into its principal and interest portions.
60 FOR K=45TO 41STEP -1
70 INPUT "INTEREST RATE DIGIT?"I
80 @(K)=I; NEXT K
90 @(65)=1;@(64)=2;@(80)=1;@(26)=1
100 $c@(36),@(54),@(36)
110 $+@(36),@(18),@(36)
120 FOR K=1TO M; MU=30+K
130 $b@(36),@(72),@(72);NEXT K
140 $c@(18),@(72),@(72)
150 $-@(18),@(72),@(72)
160 $-@(36),@(18),@(36)
170 $c@(72),@(36),@(72)
180 $c@(0),@(72),@(90)
190 @(113)=5;$+@(90),@(108),@(90)
200 FOR K=90TO 95;@(K)=0;NEXT K
210 CLEAR ; PRINT "LOAN AMOUNT= ",
215 $b@(0),@(18),@(0)
220 A=13; B=8; GOSUB 400
23Ø $b@(36),@(54),@(36)
240 PRINT ; PRINT "INTEREST RATE=
250 IF @(45)="0" GOTO 270
260 TV=@(45)
270 TU=@(44);TU=46;TU=@(43);TU=@(42);TU=@(41);TU=37;PRINT
280 PRINT "NO. OF MONTHS= ",#1,M; PRINT
290 PRINT "MONTHLY PAYMENT" "
300 A=103; B=98; GOSUB 400
310 TV=46; TV=@(97); TV=@(96); PRINT
320 K=Mc100;@(28)=K;M=M-Kb100
330 K=Mc10;@(27)=K;M=M-Kb10;@(26)=M
340 $b@(18),@(90),@(18)
350 PRINT "TOTAL PAYMENTS= ",
360 A=32; B=26; GOSUB 400
370 TU=46; TU=@(25); TU=@(24)
380 PRINT :STOP
390 .
400 Z=1; FOR K=ATO BSTEP -1
410 IF @(K)="0" IF Z GOTO 430
420 Z=0; TU=@(K)
430 NEXT K
440 RETURN
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SERVICE MANUAL by Bally (PA-) is on back order again. They like to dole them out by the dozen, so I always have a waiting list...

arcadian = 2 .ZAPPIT 3 .BY R.SWEARINGEN 4 : RETURN 5 CLEAR ; NT=0; C=0; GOTO 480 10 CLEAR ; BC=0; FC=180; NT=0; D=255; PRINT "SCORE "; PRINT #1, C,; X=RND (100)-50; Y=R ND (50)-25 20 GOSUB 370 30 LINE -44,-44,4; LINE 43,43,1; LINE -44,43,4; LINE 43,-44,1 40 BOX 0,0,160,1,1;BOX 0,0,1,88,1 50 LINE 0,28,4; LINE 10,26,1; LINE 20,20,1; LINE 26,10,1; LINE 28,0,1 60 LINE 26,-10,1; LINE 20,-20,1; LINE 10,-26,1; LINE 0,-28,1 70 LINE -10,-26,1;LINE -20,-20,1;LINE -26,-10,1;LINE -28,0,1 80 LINE -26,10,1; LINE -20,20,1; LINE -10,26,1; LINE 0,28,1 90 LINE 0.0.4; Z=1 100 GOSUB 330 110 &(21)=2b45; BOX X,Y,32,6,Z; BOX X,Y,38,2,Z 120 BOX X,Y+3,24,1,Z;BOX X,Y+4,16,1,Z;BOX X,Y+5,8,1,Z 130 BOX X+21,Y-1,5,4,Z;BOX X-22,Y-1,5,4,Z;BOX X+25,Y-2,3,3,Z;BOX X-26,Y-2,3,3,Z 140 LINE X+19, Y+1, 4; LINE X+30, Y-4, Z; LINE X+24, Y-4, Z; LINE X-26, Y-4, 4; LINE X-32, Y -4, Z; LINE X-21, Y+1, Z 150 BOX X,Y-4,26,1,Z;BOX X+8,Y-4,7,2,Z;BOX X-8,Y-4,7,2,Z;IF Z=2GOTO 180 160 LINE X-8,Y+1,4;LINE X-6,Y-1,2;LINE X-6,Y-2,2;LINE X-8,Y-4,2;LINE X-10,Y-2,2 ;LINE X-10, Y-1,2; LINE X-8, Y+1,2; LINE X+8, Y+1,4 170 LINE X+6,Y-1,2;LINE X+6,Y-2,2;LINE X+8,Y-4,2;LINE X+10,Y-2,2;LINE X+10,Y-1, 2; LINE X+8, Y+1, 2 180 LINE 0,0,4; IF Z#2IF TR(1)=1G0T0 210 190 IF Z=2G0T0 20 200 IF Z=1 Z=2;&(21)=85;G0T0 110 210 FC=98;NT=5;&(21)=0 220 LINE 0,0,4;LINE -24,-44,-1;LINE 24,-44,-4;LINE 0,0,1 230 FOR Q=0TO 3;MU="\$";MU="?";NEXT Q 240 IF 10>XIF -10(XG0T0 260 250 GOTO 10 260 IF 10>YIF -10<YG0T0 280 270 GOTO 10 280 C=C+1;Q=RND (15);R=RND (15);FOR A=1TO B;Q=QbAc2;R=RbAc2 290 &(19)=150;BC=0;&(23)=255;D=D-3;BC=92;&(21)=D 300 BOX Q,R,RND (5),RND (5),1;BOX Q,-R,RND (5),RND (5),1 310 BC=7;BOX -Q,R,RND (5),RND (5),1;BC=92;BOX -Q,R,RND (5),RND (5),1 320 NEXT A; &(19)=0; &(21)=0; &(23)=0; GOTO 10 330 IF 10>XIF -10<XG0T0 350 340 CY=-35;CX=-20;PRINT "TRACKING";RETURN 350 IF 10>YIF -10<Y CY=-35; CX=-20; PRINT " LOCKED "; RETURN 360 GOTO 340 490 IF &(23)=8GOTO 520 370 IF JY(1)=0IF JX(1)=0G0T0 420 500 IF &(22)=16GOTO 10 380 IF JX(1)=1 X=X-25 510 GOTO 490 390 IF JX(1)=-1 X=X+25 520 PRINT "THIS GAME DOES NOT KEEP 400 IF JY(1)=1 Y=Y-25 TIME. THE JOYSTICK STEERS THE TARGET, 410 IF JY(1)=-1 Y=Y+25 THE TRIGGER 420 X=X+RND (20)-10;Y=Y+RND (20)-10 FIRES THE LASER. 430 IF 10>X IF -10<XG0T0 450 530 PRINT " NO HIT IS SCORED UNLESS 440 RETURN THE SCREEN READS 'LOCKED'. 450 IF 10>YIF -10<YG0T0 470 540 FOR A=0TO 1500; NEXT A; GOTO 10

TWENTY THREE

480 PRINT "DO YOU WANT INSTRUCTIONS ? (1=YES 0=NO)

550 GOTO 10

460 RETURN

470 X=0;Y=0;RETURN

-arcadian -

#### BAGELS

BAGELS is a same in which a player, using logical deduction, predicts a given number.

In this version, the number is a random 3 digits with no duplicating disits, and after each suess the program displays one of the following responses:

BAGELS

-- No disit is correct

PICO NOS

-- One correct disit is in the wrons place

PICO-PICO -- Two or more correct digits are in the

wrong places

FERMI

-- One correct disit is in the correct place

FERMI-PICO

-- One correct disit is in the correct place and one or more correct digit is in the

wrong place

FERMI-FERMI

GAME GUESST

-- Two or more correct digits are in the

correct places

Since the correctness of only two out of three digits is disclosed, after the FERMI-FERMI response the program prompts for the confirmation of the last entry as the player's choice by printing

Press GO when the player believes that it is the true number. Press any other key to continue entering more guesses.

The program then displays whether the player's choice was right or wrons. When at least one same is won, same statistics will print after each same.

Fress GO to start the next same.

A running average is computed as the total number of guesses divided by the number of sames won.

Enter 000 to give up guessing the number and to proceed to the next same with a new number. The discontinued same is not considered as a lost same, but the number of suesses (not including the 000 entry) for the current same contributes to the same average.

Use the ERASE key for re-entering the first two digits. When the third disit is entered, the program immediately displays one of the responses.

Good luck and have fun with BAGELS.

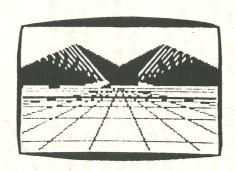
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arcadian
                                                                                                                                                                                              MU=50;MU=49;MU=50;MU=51;MU=A;MU=51;MU=A;MU=51;MU=49
                                                                                                                                                                                                               PRINT "SORRY, WRONG NUMBER"; D=D+1; BC=66; GOTO 750
                                                                                                                                                                              NT=8; A=48; MU=99; MU=53; MU=A; MU=49; MU=A; MU=A
                                                                                                                                                                                                                                                                             MU=99; MU=55; MU=50; MU=49; MU=99; MU=54; MU=48; MU=48
                                                                                                                                                                                                                                                            NT=10; MU=51; MU=45; MU=51; MU=51; MU=45; MU=51; MU=51
                                                                                                                                                                                                                                          PRINT "CORRECT NUMBER WAS ", #1, @(4), @(5), @(6)
                                                                                                                              PRINT "NO",;NT=30;MU=20;MU=18;MU=18;GOTO Z
                                                                                                                                               CX=CX-12; PRINT " ; PRINT ; IF P#12G0T0 748
                                                                                                                                                                                                                             PRINT ; PRINT ; PRINT "GAUE UP"; BC=123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               920 NT=5;FOR A=1T0 10;MU=87;MU=84;NEXT
                                N
                                                               " FERMI-PICO"; GOTO Z
                                                                                                                                                             PRINT "YOU GOT IT"; W=W+1; BC=155
                              PK=3PRINT " PICO-PICO"; GOTO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              900 PRINT " INPUT ERROR",;GOTO 920
" BAGELS"; GOTO Z
                                               P=4PRINT " FERMI"; GOTO Z
                                                                                               J. H-KP
                                                                                                                                                                                                                                                                                                                                            PRINT "STAT, AFTER GAME #"
                                                                                                                                                                                                                                                                                                                                                             # GAMES WON ....
                                                                                                                                                                                                                                                                                                                                                                             # GAMES LOST ....
              " PICO"; GOTO Z
                                                                                                                                                                                                                                                                                                                                                                                             AVE # GUESSES ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              910 PRINT " DUPLICATE DIGITS"
                                                                                                              IF (A=13)-(A=49)G0T0 700
                                                                                                                                                                                                                                                                                                              C=C+G; IF W=0G0T0 850
                                                                              PRINT " FERMI-FERMI?
                                                                                               PRINT "GAME GUESS? "
                                                                                                                                                                                                                                                                                                                            U=CcW;F=(RMb10)cW
              P=1PRINT
                                                              IF P<7PRINT
P=@PRINT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                $60 GOTO 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                G0T0 Z
                                                                                                                                                                                                                                                                                                                                                             PRINT
                                                                                                                                                                                                                                                                                                                                                                             PRINT
                                                                                                                                                                                                                                                                                                                                                                                              PRINT
                                                                                                                                                                                                                                                                                              NT=D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IF (@(1)=@(2))+(@(1)=@(3))+(@(2)=@(3))GOTO 910
                                                                                                                                                                                                                                                                                                                                                                                                                                           #1, F
                                                                                                                              690
                                                                                                                                                             710
                                                                                                                                                                              720
                                                                                                                                                                                              730
                                                                                                                                                                                                              740
                                                                                                                                                                                                                              750
                                                                                                                                                                                                                                            760
                                                                                                                                                                                                                                                             270
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                                                                                                                                                                                                                                                                                                                              810
                                                                               660
                                                                                               670
                                                                                                               680
                                                                                                                                               700
                                                                                                                                                                                                                                                                                             290
                                                                                                                                                                                                                                                                                                              800
                               630
                                                640
                                                              650
                                                                                                                                                                                                                                                                                                                                             820
                                                                                                                                                                                                           FOR B=1TO 3; TU=47+RND (10); NEXT B; NEXT
                                                                                                                                                                                                                                                                                                                                                                                                                                           IF U CX=0; CY=40; PRINT "AVERAGE", #3, U,
                                                                                                                                                                                                                                                                                                                                                                                           IF (@(6)=@(4))+(@(6)=@(5))GOTO 240
                                                                                                                           BOX 5,-5,80,50,1;BOX 5,-5,78,48,3
                                                                                                                                                                                           CX=RND (3)b20-40;CY=RND (5)b8-30
                                                                                                                                                                                                                                            CX=25; CY=-39; PRINT "PRESS GO",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NT=1;CX=-77;PRINT #2,G+1,">",
                                                                                                                                                                                                                                                                                                                                                                                                           CLEAR ; G=0; Q=0+1; FC=7; BC=243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IF @(1)+@(2)+@(3)=0G0T0 750
                                                                                                                                          CX=-40; CY=20; PRINT "BAGELS"
                                                                                                                                                                                                                                                                                                             @(4)=RND (10)-1; @(7)=@(4)
                                                                                                                                                                                                                                                                                                                                                                                                                         CY=40; PRINT " GAME", #3,0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IF (X<48)-(X>57)GOTO 900
                                                                                                            Q=0; W=0; D=0; C=0; U=0; F=0
                                                                           CLEAR ;NT=0;FC=66;BC=7
                                                                                                                                                                                                                                                                                                                                           IF @(4)=@(5)GOTO 218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IF @(A)=@(A+3)P=P+4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           @(A)=@(A+5)P=P+1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            @(A)=@(A+4)P=P+1
                                                                                                                                                                                                                                                                                           IF &(23)=060T0 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          X=KP; IF X=31G0T0 Z
                                                                                                                                                            BOX -26, 20, 49, 11,3
                                                                                                                                                                                                                                                                                                                                                                                                                                                            NT=0;CX=-77;PRINT
                                                                                                                                                                            NT=5; FOR A=1TO 15
                                                                                                                                                                                                                                                            BOX 63, -39,13,9,3
                               1979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            @(A)=X-48;NEXT A
                                                                                                                                                                                                                                                                                                                                                                           @(6)=RND (10)-1
                                                                                                                                                                                                                                                                                                                           @(S)=RND (10)-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FOR A=1T0 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FOR A=1T0 3
                              C MORIMOTO
                                                                                                                                                                                                                            NT=0;FC=252
                                                                                                                                                                                                                                                                            A=RND (10)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            G=G+1;P=0
                                                                                                                                                                                                                                                                                                                                                            @(S)=@(B)
              .BAGELS
                                                              : RETURN
                                                                                                Z=300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NEXT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X=OL
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                                                                                                                                                                                                                                                                                             (3)
                                                                                                                                                                                                                                                                                                             ZNO
                                                                                                                                                                                                                                                                                                                            210
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W & W Software Sales 6594 Swartout Rd. Algonac MI 48001 now have 8 cassettes with 5 programs each. Send for complete list and prices.

FOR SALE: Programs Tape containing SUPER STAR TREK, SPACE BATTLE, CHASE, BOMBARDMENT, BULLSEYE, All are pistol grip controlled. Cost is \$10 with documentation, supplied on your tape (cassette, 8-track, or r/r) Mark Keller, 9536 Shumway Dr. Orangevale, CA 95662

BALLY with four hand controls and cartridges #2001 and #3002 for sale. New unit still in original box \$235. M.Breyfogle 18 No. 7th Street, Estherville, IA 51334

BALLY PIN and SPACE INVADERS are now available from SEBREE'S COMPUTING, 456 Granite, Monrovia, CA 91016. Price is \$26.70 postpaid plus CA tax if appropriate. ALSO, 'XY TUTORIAL' demonstrates graphic and color abilities and provides insight into operation of the XY command. Includes graphic experiments, Cartesian to X-Y conversions, video art, charts, listings of all programs 3-dimensional simulation, and more! All for \$10.70 postpaid. (illustration shows portion of 3-d program)



ARCADE SYSTEM 4 controllers, BASEBALL, CLOWNS, SEA WOLF, FOOTBALL, BASIC and interface. \$425 Bob Miller 115 E. Vine St. Oxford, OH 45056

BIORYTHMS CORRECTION change line 101 to read GOSUB M x 10 + 250

### TWENTY SIX

### ARCADIAN

Robert Fabris, ex-gambler 3626 Morrie Drive San José, CA 95127

FIRST CLASS